



TECHNICAL REPORT

Report To: Mr. Erik Bakkom
Maul Foster & Alongi, Inc.
3121 SW Moody Ave., Suite 200
Portland, Oregon 97239

Date: 7/24/08

Lab No: 08-175

Project: Laboratory Testing

Project No.: 2043.1.1

Report of: Flexible wall permeability

Sample Identification

NTI determined the flexible wall permeability on two samples delivered to our laboratory on May 29, 2008 by a Maul Foster & Alongi, Inc. representative. Testing was performed in accordance with the standards indicated. Our laboratory test results are summarized on the following tables.

Laboratory Test Results

Sample ID: GP 112 @ 103.5 ft.

Flexible Wall Permeability – Sample Data (ASTM D5084)					
Mass (grams)	Length (inches)	Diameter (inches)	Area (inches)	Moisture Content (percent)	Dry Density (pcf)
70.68	1.629	1.382	1.500	43.9	76.6

Flexible Wall Permeability – Test Data (ASTM D5084)			
Sample Condition	Saturation at Time of Testing (percent)	Head (psi)	Hydraulic Gradient (in/in)
As received	97	1.5	25.51

Flexible Wall Permeability – Test Results (ASTM D5084)				
Test 1 k (cm/sec)	Test 2 k (cm/sec)	Test 3 k (cm/sec)	Test 4 k (cm/sec)	Average k (cm/sec)
2.43×10^{-7}	2.62×10^{-7}	2.65×10^{-7}	2.25×10^{-7}	2.49×10^{-7}

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SHEET 1 of 2

REVIEWED BY: Bridgett Adame

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Laboratory Test Results

Sample ID: GP 113 @ 108.5 ft.

Flexible Wall Permeability – Sample Data (ASTM D5084)					
Mass (grams)	Length (inches)	Diameter (inches)	Area (inches)	Moisture Content (percent)	Dry Density (pcf)
61.28	1.228	1.374	1.483	38.0	92.9

Flexible Wall Permeability – Test Data (ASTM D5084)			
Sample Condition	Saturation at Time of Testing (percent)	Head (psi)	Hydraulic Gradient (in/in)
As received	99	1.0	22.56

Flexible Wall Permeability – Test Results (ASTM D5084)				
Test 1 k (cm/sec)	Test 2 k (cm/sec)	Test 3 k (cm/sec)	Test 4 k (cm/sec)	Average k (cm/sec)
1.01×10^{-6}	1.03×10^{-6}	1.08×10^{-7}	1.14×10^{-6}	1.07×10^{-6}

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